M 4.0, 14km WSW of Searles Valley, CA
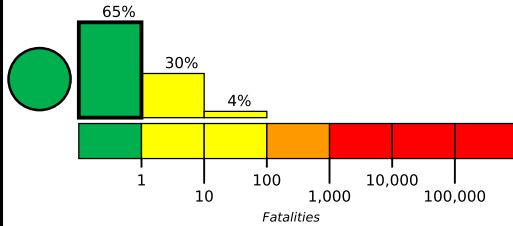
Origin Time: 2019-07-04 17:37:55 UTC (Thu 10:37:55 local)
Location: 35.7398° N 117.5607° W Depth: 0.6 km
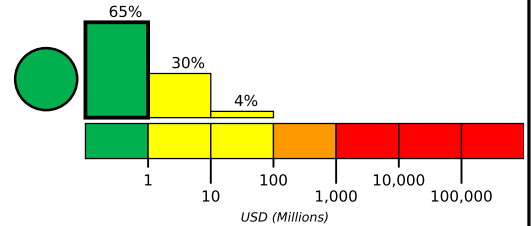
PAGER
Version 1

Created: 8 minutes, 27 seconds after earthquake

Estimated Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

Estimated Economic Losses

Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)	120k*	48k	28k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY	I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE — Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
POTENTIAL DAMAGE — Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure

population per 1 sq. km from Landscan

0	5	50	100	500	1000	5000	10000
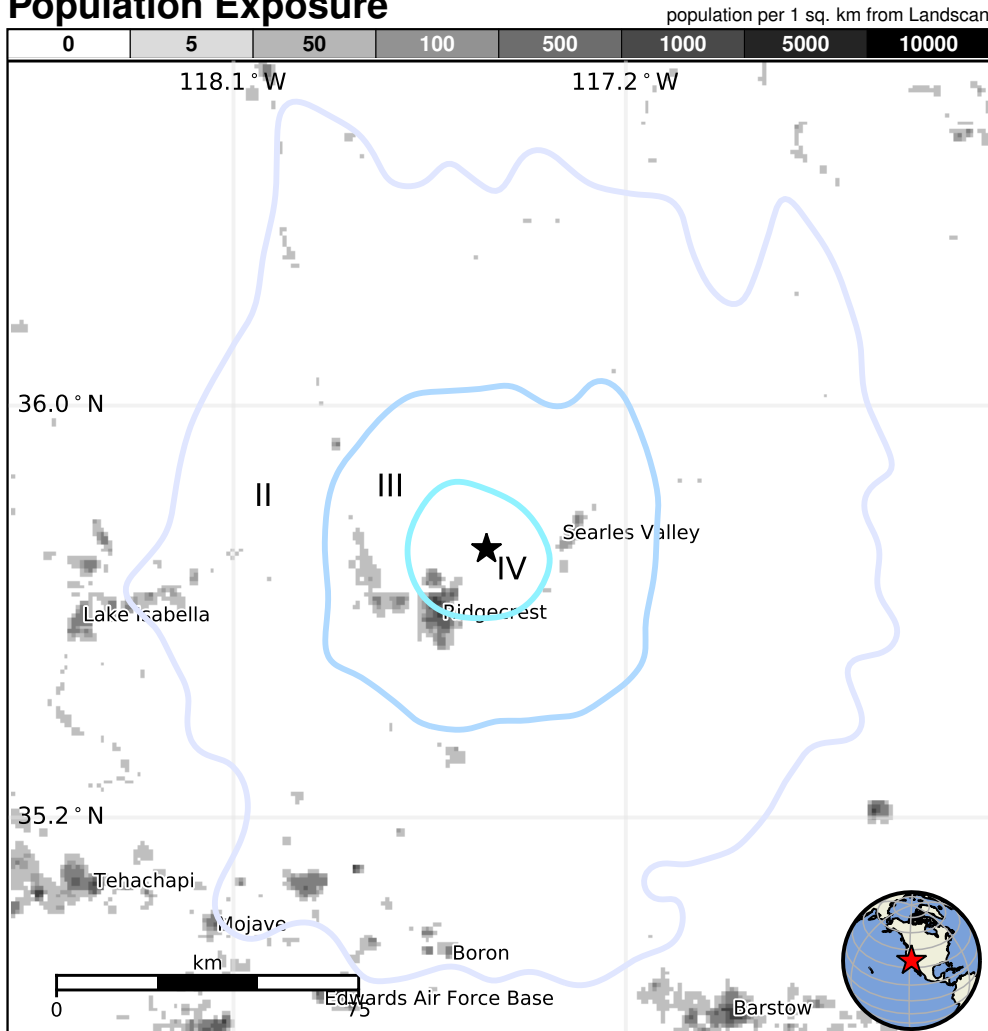
Structures

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1991-06-28	172	5.6	VI(1,267k)	1
2003-12-22	317	6.6	VI(8k)	2
1971-02-09	167	6.6	IX(21k)	65

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
IV	**Ridgecrest**	**28k**
III	**Searles Valley**	**2k**
III	China Lake Acres	2k
III	Inyokern	1k
II	Weldon	3k
II	California City	14k
I	Fort Irwin	9k
I	**Tehachapi**	**14k**
I	**Barstow**	**23k**
I	Barstow Heights	24k
I	Rosamond	18k

bold cities appear on map.   (k = x1000)

PAGER content is automatically generated, and only considers losses due to structural damage.
Limitations of input data, shaking estimates, and loss models may add uncertainty.
https://earthquake.usgs.gov/earthquakes/eventpage/ci38443199#pager

Event ID: ci38443199